

Receipt date: 01/23/2004

10678741 - GAU: 3737

PTO/SB/08a (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 7

Complete If Known

Application Number	10/678,741
Filing Date	October 3, 2003
First Named Inventor	Hassan Mostafavi
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	VM7012094003

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	AA	US-3,861,807	01/21/75	Lescrenier	
	AB	US-3,871,360	03/18/75	Van Horn et al.	
	AC	US-3,952,201	04/20/76	Hounsfield	
	AD	US-4,031,884	06/28/77	Henzel	
	AE	US-4,262,306	04/14/81	Renner	
	AF	US-4,463,425	07/31/84	Hirano et al.	
	AG	US-4,994,965	02/19/91	Crawford et al.	
	AH	US-5,080,100	01/14/92	Trotel	
	AI	US-5,271,055	12/14/93	Hsieh et al.	
	AJ	US-5,279,309	01/18/94	Taylor et al.	
	AK	US-5,295,483	03/22/94	Nowacki et al.	
	AL	US-5,315,630	05/24/94	Sturm et al.	
	AM	US-5,389,101	02/14/95	Heilbrun et al.	
	AN	US-5,394,875	03/07/95	Lewis et al.	
	AO	US-5,446,548	08/29/95	Gerig et al.	
	AP	US-5,538,494	07/23/96	Matsuda	
	AQ	US-5,582,182	12/10/96	Hillsman	
	AR	US-5,603,318	02/18/97	Heilbrun et al.	
	AS	US-5,727,554	03/17/98	Kalend et al.	
	AT	US-5,764,723	06/09/98	Weinberger et al.	
	AU	US-5,784,431	07/21/98	Kalend et al.	
	AV	US-5,823,192	10/20/98	Kalend et al.	
	AW	US-5,836,954	11/17/98	Heilbrun et al.	
	AX	US-5,954,647	09/21/99	Bova et al.	
	AY	US-6,138,302	10/31/00	Sashin et al.	
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	BF	US-6,621,889B1	09/16/03	Mostafavi	
	BG	2002/0023652 A1	02/28/02	Riazat et al.	
	BH	2003/0007593 A1	01/09/03	Heuscher et al.	

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PA:52126096.1/2018721-7012094003

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Sheet 2 of 7

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Examiner Name	Not Yet Assigned
Attorney Docket Number	VM7012094003

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Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	BI	2003/0063292 A1	04/03/03	Mostafavi	
	BJ	2003/0072419 A1	04/17/03	Bruder et al.	

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Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	BK	DE 43 41 324 A 1	06/08/95	Germany		
	BL	79458	09/29/89	Finland		
	BM	WO 98/16151	04/23/98	PCT		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BN	Peltola, Seppo M.Sc.; "Gated Radiotherapy To Compensate For Patient Breathing"; <i>Proceedings of the Eleventh Varian Users Meeting</i> ; Macro Island, Florida; May 11-13, 1986.	
	BO	Mah, Katherine, et al.; "Time Varying Does Due To Respiratory Motion During Radiation Therapy Of The Thorax"; <i>Proceedings of the Eighth Int'l Conference on the Use of Computers In Radiation Therapy</i> , Toronto, Canada; July 9-12, 1984; pp. 294-298.	
	BP	Mori, Masayuki, et al.; "Accurate Contiguous Sections Without Breath-Holding On Chest CT: Value of Respiratory Gating and Ultrafast CT"; <i>AJR</i> :162, May 1994; pp. 1057-1062.	
	BQ	Robinson, Terry E., et al.; "Standardized High-Resolution CT of the Lung Using A Spirometer-Triggered Electron Beam CT Scanner"; <i>AJR</i> :172, June 1999; pp. 1636-1638.	
	BR	Luker, Gary D., et al.; "Ghosting of Pulmonary Nodules With Respiratory Motion: Comparison of Helical and Conventional CT Using an In Vitro Pediatric Model"; <i>AJR</i> :167, November 1996; pp. 1189-1193.	
	BS	Li, Debiao, et al.; "Coronary Arteries: Three-dimensional MR Imaging With Retrospective Respiratory Gating"; <i>Radiology</i> , December 1996; Vol. 201; No. 3.; pp. 857-863.	
	BT	Kachelriess, Marc, et al.; "Electrocardiogram-correlated Image Reconstruction From Subsecond Spiral Computed Tomography Scans Of The Heart"; <i>Med. Phys.</i> 25(12); December 1998; pp. 2417-2431.	

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First Named Inventor	Hassan Mostafavi
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Examiner Name	Not Yet Assigned
Attorney Docket Number	VM7012094003

NON PATENT LITERATURE DOCUMENTS

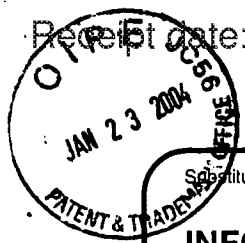
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BU	Tada, Takuhito, et al.; "Lung Cancer: Intermittent Irradiation Synchronized With Respiratory Motion-Results Of A Pilot Study"; <i>Radiology</i> , June, 1998; Vol. 207; No. 3; pp. 779-783.	
	BV	Solberg, Timothy D., et al.; "Feasibility of Gated IMRT"; 3 pps.	
	BW	Wong, John W., et al.; "The Use Of Active Breathing Control (ABC) To Reduce Margin For Breathing Motion"; <i>Int. J. Radiation Oncology Biol. Phys.</i> ; 1999; Vol. 44; No. 4; pp. 911-919.	
	BX	Mageras, Gig, et al.; "Initial Clinical Evaluation Of A Respiratory Gating Radiotherapy System"; <i>Dept. of Medical Physics, Memorial Sloan-Kettering Cancer Center, New York</i> ; 4 pps.	
	BY	Yorke, Ellen, et al.; "Respiratory Gating Of Sliding Window IMRT"; <i>Dept. of Medical Physics, Memorial Sloan-Kettering Cancer Center, New York</i> ; 4 pps.	
	CA	Keatley, Eric, et al.; "Computer Automated Diaphragm Motion Quantification in a Fluoroscopic Movie"; <i>Dept. of Medical Physics, Memorial Sloan-Kettering Cancer Center, New York</i> ; 3 pps.	
	CB	Kubo, H. Dale, et al.; "Breathing-Synchronized Radiotherapy Program at the University of California Davis Cancer Center"; <i>Med. Phys.</i> 27(2); February 2000; pp. 346-353.	
	CC	Iwasawa, Tae, et al.; "Normal In-Plane Respiratory Motion of the Bilateral Hemidiaphragms Evaluated By Sequentially Subtracted Fast Magnetic Resonance Images"; <i>Journal of Thoracic Imaging</i> , 1999; Vol. 14, No. 2; pp. 130-134.	
	CD	Kim, W.S., et al.; "Extension of Cardiac and Respiratory Motion Cycles by Use of Projection Data and Its Applications to NMR Imaging"; <i>Magnetic Resonance in Medicine</i> 13, 1990; pp. 25-37.	
	CE	Woodard, Pamela K., et al.; "Detection of Coronary Stenoses on Source and Projection Images Using Three-Dimensional MR Angiography With Retrospective Respiratory Gating: Preliminary Experience"; <i>AJR</i> ; 170, April 1998; No. 4; pp. 883-888.	
	CF	Sinkus, Ralph, et al.; "Motion Pattern Adapted Real-Time Respiratory Gating"; <i>Magnetic Resonance in Medicine</i> 41; 1999; pp. 148-155.	
	CG	Weiger, Markus, et al.; "Motion-Adapted Gating Based on k-Space Weighting For Reduction of Respiratory Motion Artifacts"; <i>Magnetic Resonance in Medicine</i> 38; 1997; pp. 322-333.	
	CH	Wang, Yi, et al.; "Implications For The Spatial Resolution in Coronary Imaging"; <i>Magnetic Resonance in Medicine</i> 33; 1995; pp. 713-719.	
	CI	Ritchie, Cameron J., et al.; "Predictive Respiratory Gating: A New Method To Reduce Motion Artifacts on CT Scans"; <i>Radiology</i> , 1994; pp. 847-852; Vol. 190; No. 3.	

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Sheet 4 of 7

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First Named Inventor	Hassan Mostafavi
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NON PATENT LITERATURE DOCUMENTS

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	CJ	Kubo, H. Dale, et al.; "Potential and Role of a Prototype Amorphous Silicon Array Electronic Portal Imaging Device in Breathing Synchronized Radiotherapy"; <i>Med. Phys.</i> 26(11); November 1999; pp. 2410-2414.	
	CK	Kubo, Hideo D., et al.; "Respiration Gated Radiotherapy Treatment: A Technical Study"; <i>Phys. Med. Biol.</i> (1996) Vol. 41; pp. 83-91.	
	CL	J.M. Balter et al.; "Uncertainties In CT-Based Radiation Therapy Treatment Planning Associated With Patient Breathing"; <i>Int. J. Radiat. Oncol., Biol., Phys.</i> 36; pp. 167-174 (August 1996).	
	CM	S.C. Davies et al.; "Ultrasound Quantitation Of Respiratory Organ Motion in The Upper Abdomen"; <i>Br. J. Radiol.</i> 67; pp. 1096-1102 (November 1994).	
	CN	R.L. Ehman et al.; "Magnetic Resonance Imaging With Respiratory Gating: Techniques and Advantages"; <i>Am. J. Roentgenol</i> 143; pp. 1175-1182 (December 1984).	
	CO	H. Frölich et al.; "A Simple Device For Breath-Level Monitoring During CT"; <i>Radiology</i> 156; p. 235 (July 1985).	
	CP	R.M. Henkelman et al.; "How Important Is Breathing In Radiation Therapy Of The Thorax?"; <i>Int. J. Radiat. Oncol., Biol., Phys.</i> 8; pp. 2005-2010 (November 1982).	
	CQ	M.B.M. Hofman et al.; "MRI Of Coronary Arteries: 2D Breath-Hold vs. 3D Respiratory-Gated Acquisition"; <i>J. of Comp. Assisted Tomography</i> 19; pp. 56-62 (Jan./Feb. 1995).	
	CR	G.J. Kutcher et al.; "Control, Correction, and Modeling Of Setup Errors and Organ Motion"; <i>Semin. Radiat. Oncol.</i> 5; pp. 134-145 (April 1995).	
	CS	J. Hanley et al.; "Deep Inspiration Breath-Hold Technique For Lung Tumors: The Potential Value of Target Immobilization And Reduced Lung Density In Dose Escalation"; <i>Int. J. Radiat. Oncol., Biol. Phys.</i> 45; pp. 603-611 (October 1999).	
	CT	L.S. Johnson et al.; "Initial Clinical Experience With A Video-Based Patient Positioning System"; <i>Int. J. Radiat. Oncol. Biol. Phys.</i> 45; pp. 205-213; (August 1999).	
	CU	H.W. Korin et al.; "Respiratory Kinematics Of The Upper Abdominal Organs: A Quantitative Study"; <i>Magn. Reson. Med.</i> 23; pp. 172-178 (January 1992).	
	CV	H.D. Kubo et al.; "Respiration Gated Radiotherapy Treatment: A Technical Study"; <i>Phys. Med. Biol.</i> 41; pp. 83-91; (1996).	
	CW	H.D. Kubo et al.; "Potential And Role Of A Prototype Amorphous Silicon Array Electronic Portal Imaging Device In Breathing Synchronized Radiotherapy"; <i>Med. Phys.</i> 26; pp. 2410-2414; (November 1999).	

Examiner Signature	Date Considered
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Sheet 5 of 7

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	CX	C.E. Lewis et al.; "Comparison Of Respiratory Triggering And Gating Techniques For The Removal Of Respiratory Artifacts In MR Imaging"; <i>Radiology</i> 160; pp. 803-810; (September 1986).	
	CY	D. Li et al.; "Coronary Arteries: Three-Dimensional MR Imaging With Retrospective Respiratory Gating"; <i>Radiology</i> 201; pp. 857-863 (December 1996).	
	CZ	M.A. Moerland et al.; "The Influence Of Respiration Induced Motion Of The Kidneys On The Accuracy Of Radiotherapy Treatment Planning, A Magnetic Resonance Imaging Study"; <i>Radiotherapy Oncol.</i> 30, pp. 150-154 (1994).	
	DA	K. Ohara et al.; "Irradiation Synchronized With Respiration Gate"; <i>Int. J. Radiat. Oncol., Biol. Phys.</i> 17; pp. 853-857; (October 1989).	
	DB	J.N. Oshinski et al.; "Two-Dimensional Coronary MR Angiography Without Breath Holding"; <i>Radiology</i> 201; pp. 737-743; (December 1996).	
	DC	C.R. Ramsey et al.; "A Comparison Of Beam Characteristics For Gated And Nongated Clinical X-Ray Beams"; <i>Med. Phys.</i> 26; pp. 2086-2091; (October 1999).	
	DD	C.R. Ramsey et al.; "Clinical Efficacy Of Respiratory Gated Conformal Radiation Therapy"; <i>Medical Dosimetry</i> 24; pp. 115-119; (1999).	
	DE	F. Lethimonnier et al.; "Three-Dimensional Coronary Artery MR Imaging Using Prospective Real-Time Respiratory Navigator and Linear Phase Shift Processing: Comparison With Conventional Coronary Angiography"; <i>Magn. Reson. Imaging</i> 17; pp. 1111-1120; (1999).	
	DF	R.J. van Geuns et al.; "Magnetic Resonance Imaging Of The Coronary Arteries: Clinical Results From Three Dimensional Evaluation Of A Respiratory Gated Technique"; <i>Heart</i> 82; pp. 515-519; (October 1999).	
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	DI	K. Cho et al.; "Development Of Respiratory Gated Myocardial SPECT System"; <i>J. Nucl. Cardiol.</i> 6; pp. 20-28; (Jan./Feb. 1999).	
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	DK	V.M. Runge et al.; "Respiratory Gating In Magnetic Resonance Imaging at 0.5 Tesla"; <i>Radiology</i> 151; pp. 521-523; (May 1984).	

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	DL	T.S. Sachs et al.; "Real-Time Motion Detection In Spiral MRI Using Navigators", <i>Magn. Reson. Med.</i> 32; pp. 639-645; (November 1994).	
	DM	L.H. Schwartz et al.; "Kidney Mobility During Respiration"; <i>Radiother. Oncol.</i> 32; pp. 84-86; (1994).	
	DN	M. Paivansalo Suramo et al.; "Cranio-caudal Movements Of The Liver, Pancreas And Kidneys In Respiration", <i>Acta Radiol. Diagn.</i> 2; pp. 129-131; (1984).	
	DO	C.R. Ramsey et al.; "Clinical Efficacy Of Respiratory Gated Conformal Radiation Therapy"; <i>Med. Dosim.</i> 24; pp. 115-119; (1999).	
	DP	J.W. Wong et al.; "The Use Of Active Breathing Control (ABC) To Reduce Margin For Breathing Motion"; <i>Int. J. Radiat. Oncol., Phys.</i> 44; pp. 911-919; (July 1999).	
	DQ	H.D. Kubo et al.; "Compatibility Of Varian 2100C Gated Operations With Enhanced Dynamic Wedge And IMRT Dose Delivery"; <i>Med. Phys.</i> 27; pp. 1732-1738; (August 2000).	
	DR	H. Shirato et al.; "Four-Dimensional Treatment Planning And Fluoroscopic Real-Time Tumor Tracking Radiotherapy For Moving Tumor"; <i>Int. J. Radiat. Oncol., Biol., Phys.</i> 48; pp. 435-442; (September 2000).	
	DS	N.G. Bellenger et al.; "Left Ventricular Quantification In Heart Failure By Cardiovascular MR Using Prospective Respiratory Navigator Gating: Comparison With Breath-Hold Acquisition"; <i>J. Magn. Reson. Imaging</i> 11; pp. 411-417; (April 2000).	
	DT	Q. Yuan et al.; "Cardiac-Respiratory Gating Method For Magnetic Resonance Imaging Of The Heart"; <i>Magn. Reson. Med.</i> 43; pp. 314-318; (February 2000).	
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Examiner
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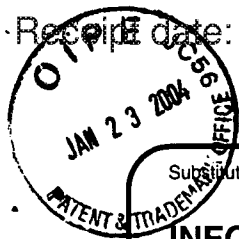
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 7 of 7

Complete if Known

Application Number	10/678,741
Filing Date	October 3, 2003
First Named Inventor	Hassan Mostafavi
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	VM7012094003

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	DZ	G. Mageras et al.; "Initial Clinical Evaluation Of A Respiratory Gating Radiotherapy System"; 22 nd Annual EMBS International Conference, Chicago, IL.; pp. 2124-2127; (July 23-28, 2000).	
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